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	Application No.	Applicant(s)	
Nation of Allowahility	10/075,733	BEHRENDT ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Krishnan S Menon	1723	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ag or other appropriate communicatio IGHTS. This application is subject:	oplication. If not include	ed
1. This communication is responsive to 10/4/04.			
2. X The allowed claim(s) is/are 1-11, 13-23, 25-26, 42-44 and	47; RENUMBERED 1-28.		
3. \boxtimes The drawings filed on <u>14 February 2002</u> are accepted by the	ne Examiner.		
 4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONMITHIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 	been received. been received in Application No cuments have been received in this	national stage applicat	
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	tted. Note the attached EXAMINER s reason(s) why the oath or declara	'S AMENDMENT or No ation is deficient.	OTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftsperson 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date	on's Patent Drawing Review (PTO-	Office action of	
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in th	34(c)) should be written on the drawir e header according to 37 CFR 1.121(c	ngs in the front (not the l	back) of
7. DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F	it of BIOLOGICAL MATERIAL r OR THE DEPOSIT OF BIOLOGIC	nust be submitted. No AL MATERIAL.	ote the
Attachment(s) I. Notice of References Cited (PTO-892) I. Notice of Praftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☒ Examiner's Amendn 8. ☒ Examiner's Stateme 9. ☐ Other	(PTO-413), e nent/Comment	

Application/Control Number: 10/075,733

Art Unit: 1723

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Bernard Lau on 10/21/04.

The application has been amended as follows:

The Specification is amended as follows:

In page 7 paragraph 0017, delete: [[Figure 1 shows]]; add: Figures 1a - 1d show

In page 7 paragraph 0018, delete: [[Figure 2 shows]]; add: Figures 2a - 2c show

In page 8 paragraph 0019, delete: [[Figure 3 shows]]; add: Figures 3a - 3d show

In page 8 paragraph 0021, delete: [[Figure 5 shows]]; add: Figures 5a and 5b

<u>show</u>

Allowable Subject Matter

Claims 1-11, 13-23, 25-26, 42-44 and 47 are allowed.

The following is an examiner's statement of reasons for allowance:

The closest prior art is Jha (US 6,524,481). Independent claim 1 as amended includes limitations to the packing density of the hollow fibers and the radial segmental

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elements, which are not taught by the reference. Amended claim 1 now has a narrow definition of the packing space, and the packing density is the fiber volume as a percentage of this packing space. Even with this definition, the packing density could still overlap the packing density of the Jha ref. However, this overlap at best could only be in a very narrow lower end of the large range (5-70%) taught by Jha, thus would not meet the "sufficient specificity" requirement according to MPEP 2131.03, and therefore, the reference does not anticipate the claim. The reference also teaches that a lower packing density would be undesirable, which would also make the claim non-obvious over the reference. It would be not obvious to one of ordinary skill in the art at the time of invention to combine this reference with any other to arrive at the claimed invention because there are no references found that teaches a low packing density as desirable because of unfavorable cost. The reference also does not teach a radial segmentation element as claimed. US Patent 5,282,964 to Young teaches such segmentation element. However, this reference teaches tube-side feed and high packing density, and the segmentation element in this reference is provided for improving the shell-side counter-current flow of permeate, and therefore, would not provide a motivation to combine with the Zha reference.

Rest of the claims are allowable because they depend form claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee, and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Krishnan S Menon whose telephone number is 571-272-1143. The examiner can normally be reached on 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda L Walker can be reached on 571-272-1151. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Krishnan Menon Patent Examiner

W. L. WALKER
SUPERVISORY PATENT EXAMINER
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